

# DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D135-1027 REV. E AND  
INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-D135-1027 REV. 2 OR LATER APPROVED REVISIONS  
REF. TCCA STC: SH18-49  
REF. FAA STC: SR04276NY  
REF. EASA STC: 10068097  
REF. DGAC MEXICO STC: IA-633/2019

## 1.0 PURPOSE

The purpose of this Dart Service Instruction (DSI) is to provide instructions to allow customers to install AS22-38-11B and AS22-38-12C Cargo Hook Attachment Fittings (or equivalent) onto D135-1027-101/-103/-201/-203 Crosstubes Installations @ CHG 001. The required provisions are pre-drilled on CHG 002 or later crosstubes.

## 2.0 INSTALLATION

- 2.1 If required, remove the landing gear from the aircraft per Chapter 32.1 of ICA-D135-1027.
- 2.2 On the D135-1027-241/-243 Aft Crosstube, install MS21043-3 Lock Nut and trim the forward side of the central grounding stud leaving 1.5 - 4 threads in safety as shown in Figure 1 of this Service Instruction. If required for clearance, it is permissible to remove the MS35650-304 Hex Nut and replace with the MS21043-3 Lock Nut only to allow additional trimming. Tighten MS21043-3 until snug.
- Note:** It is no longer permissible to use the fwd-center grounding stud of the D135-1027-241/-243 Aft crosstube for grounding.
- 2.3 Drill 2x  $\varnothing$  0.236"-0.244" ( $\varnothing$  6.0-6.2 mm) holes on the fwd side of the D135-1027-241/-243 Aft Crosstube as shown in Figure 1 of this Service instruction. The holes are symmetrical about the center of the Aft Crosstube and 6.752" - 6.791" (171.5 - 172.5mm) apart. It is recommended to transfer mark holes from OEM aft cargo hook attachment cross-bracket to ensure correct fit.
- 2.4 Drill 1x  $\varnothing$  0.236"-0.244" ( $\varnothing$  6.0-6.2 mm) hole in the middle of the aft side of the D135-1027-141/-143 Fwd Crosstube as shown in Figure 2 of this service instruction.
- 2.5 Deburr all holes and remove any debris from the inside of the crosstube. Touch up the affected area using chemical film (Alodine 1200 or 1201) per MIL-DTL-5541.
- 2.6 Install the cargo hook attachment fittings per the Aircraft Maintenance Manual. If the attachment fittings are not installed, seal all the holes with Proseal 890 or sealant per ICA-D135-1027 Chapter 32. Allow sealant to cure per manufacturer's recommendations.

CANADA  
DEPARTMENT OF TRANSPORT  
AIRCRAFT CERTIFICATION  
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DAO # 01-O-01

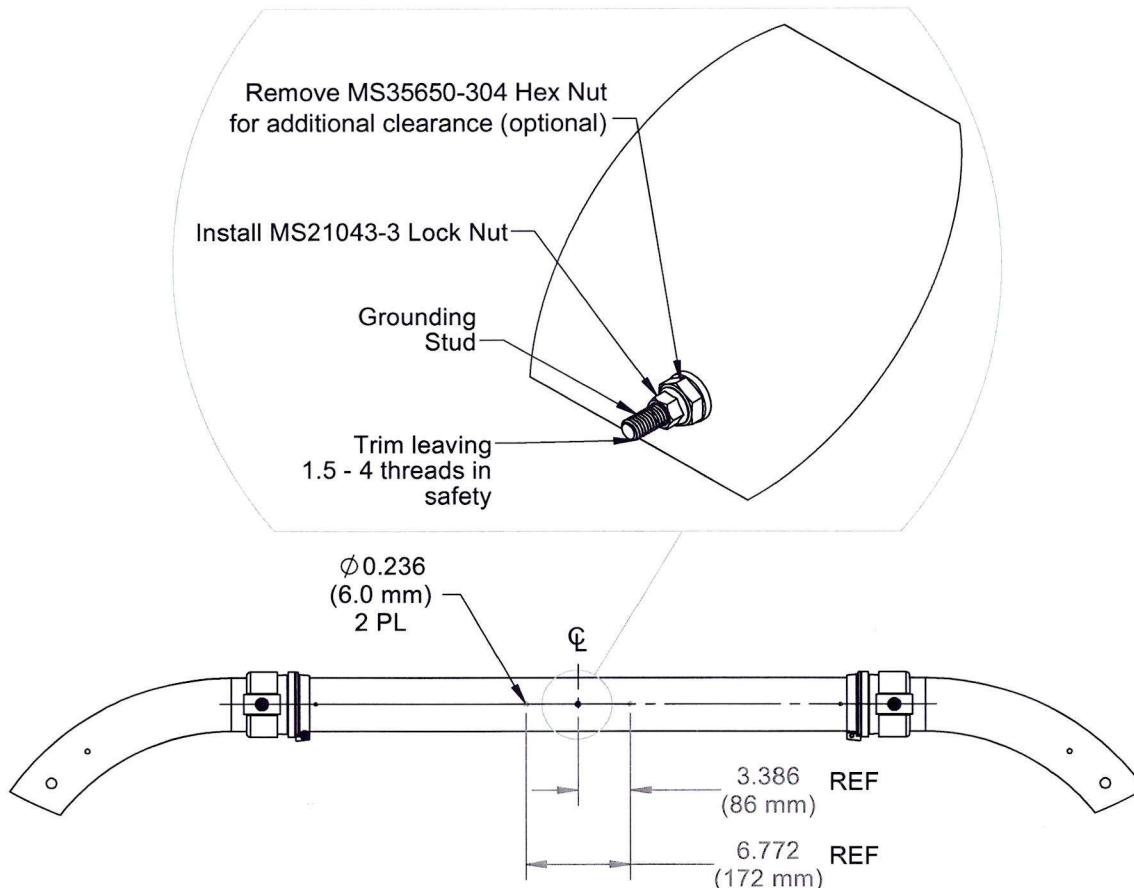
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BY:   
C. PROVENCAL (DE # 03)

DATE: 19.09.05  
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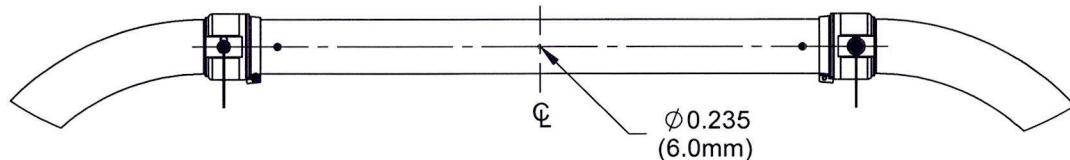
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A	NEW ISSUE		MW	19.09.05	
REV.	DESCRIPTION			BY	DATE
DESIGN	MW	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	DRAWING NO. DSI 9834	REV. A SHEET 1 OF 2	
DRAWN	MW				
CHECKED	NO				
MFG. APPR.	N/A				
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2.7 Install the crosstubes or complete landing gear on the aircraft in accordance with Installation Instructions IIN-D135-1027 or Instructions for Continued Airworthiness ICA-D135-1027 as appropriate.



**FIGURE 1: D135-1027-241/-243 AFT CROSSTUBE**  
(VIEW LOOKING AFT)



**FIGURE 2: D135-1027-141/-143 FWD CROSSTUBE**  
(VIEW LOOKING FWD)

### 3.0 WEIGHT AND BALANCE

This DSI has negligible effect of weight and balance.

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DRAWN	MW	HAWKESBURY, ONTARIO, CANADA	
CHECKED	NO	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9834	SHEET 2 OF 2
APPROVED	NO	TITLE	SCALE
DE APPR.	CP <i>up</i>	CARGO HOOK PROVISIONS	
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